UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/764,800	01/26/2004	Marcus F. Fontoura	SVL920030118US1	9771

47069   7590   02/26/2007

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EXAMINER
ALI, MOHAMMAD

ART UNIT	PAPER NUMBER
2166	

MAIL DATE	DELIVERY MODE
02/26/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Interview Summary	10/764,800	FONTOURA ET AL.
	Examiner	Art Unit	
	Mohammad Ali	2166	

All participants (applicant, applicant's representative, PTO personnel):

(1) *Mohammad Ali*. (3)_____.

(2) *Janaki K. Davda (RN: 40,684)*. (4)_____.

Date of Interview: *21 February 2007*.

Type: a)☒ Telephonic b)☐ Video Conference
  c)☐ Personal [copy given to: 1)☐ applicant 2)☐ applicant's representative]

Exhibit shown or demonstration conducted: d)☐ Yes e)☒ No.
  If Yes, brief description: _____.

Claim(s) discussed: *1*.

Identification of prior art discussed: *None*.

Agreement with respect to the claims f)☐ was reached. g)☐ was not reached. h)☒ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: *Applicant's representative discussed the proposed amendment and 101 issues. Examiner suggested adding claims limitations 6 and 7 to all independent claims including proposed amendment may be overcome the prior art of record. After receiving the amendments further search will be conducted and another office action will follow-up. Applicant's agreed to file an RCE with the amendments*.

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN A NON-EXTENDABLE PERIOD OF THE LONGER OF ONE MONTH OR THIRTY DAYS FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.

Examiner's signature, if required

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record
A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews
Paragraph (b)
In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.
All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:
- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:
1) A brief description of the nature of any exhibit shown or any demonstration conducted,
2) an identification of the claims discussed,
3) an identification of the specific prior art discussed,
4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
5) a brief identification of the general thrust of the principal arguments presented to the examiner,
   (The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
6) a general indication of any other pertinent matters discussed, and
7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

KONRAD RAYNES & VICTOR, LLP

315 S. Beverly Drive, Suite 210   *Telephone: (310) 556-7983*
Beverly Hills, California 90212   *Facsimile: (310) 556-7984*

FAX COVER SHEET

PLEASE DELIVER THIS FACSIMILE TO EXAMINER MOHAMMAD ALI

TO: Commissioner for Patents   FROM: Janaki K. Davda
        Attn: Examiner Mohammad Ali
        Group Art Unit 2166
        Patent Examining Corps
        Facsimile Center   OUR REF: 0056.0020
        Alexandria, VA 22313   TELEPHONE: 310-556-7983

Total pages, including cover letter: 12 .

PTO FAX NUMBER 1-571-273-4105

If you do NOT receive all of the pages, please telephone us at 310/556-7983, or fax us at 310/556-7984.

Description of Documents Transmitted: PROPOSED AGENDA FOR INTERVIEW

Applicant: M.F. FONTOURA et al.
Serial No.:   10/764,800
Filed: January 26, 2004
Group Art Unit: 2166
Docket No.:   SVL920030118US1

I hereby certify that this paper is being transmitted by facsimile to the U.S. Patent and Trademark Office on February 12, 2007

By: _____
Name: Janaki K. Davda

<u>IN THE UNITED STATES PATENT AND TRADEMARK OFFICE</u>

Applicant(s):	M.F. FONTOURA et al.	Examiner	Mohammad Ali
Serial No.	10/764,800	Group Art Unit	2166
Filed	January 26, 2004	Docket No.	SVL920030118US1
TITLE	ARCHITECTURE FOR AN INDEXER		

CERTIFICATE UNDER 37 CFR 1.8:
I hereby certify that this correspondence is being transmitted by facsimile to Mohammad Ali of the U.S. Patent and Trademark Office at 1-571-273-4105 on February 12, 2007.

_____
Janaki K. Davda

INFORMAL/DRAFT COMMUNICATION - DO NOT ENTER INTO PROSECUTION RECORD: PROPOSED AGENDA FOR INTERVIEW

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Examiner:

This agenda is being submitted prior to a telephone interview.

The tentative participants are Examiner Ali and Janaki K. Davda.

The proposed date of Interview is Wednesday, February 21, 2007. The proposed time is 1:00 p.m. (EST).

A telephone interview is requested.

No exhibit will be shown.
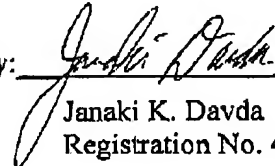
Dated February 12, 2007

<div align="right">
Serial No. 10/764,800
Docket No. SVL920030118US1
Firm No. 0056.0020
</div>

Applicants would like to discuss the claims as amended in the amendment filed on February 12, 2007, a copy of which is attached.

Dated: February 12, 2007   By: _____

Janaki K. Davda
Registration No. 40,684

Please direct all correspondences to:

Janaki K. Davda
Konrad Raynes & Victor, LLP
315 South Beverly Drive, Ste. 210
Beverly Hills, CA 90212
Tel: (310) 553-7973
Fax: 310-556-7984

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):	M.F. FONTOURA et al.	Examiner	Mohammad Ali
Serial No.	10/764,800	Group Art Unit	2166
Filed	January 26, 2004	Docket No.	SVL920030118US1
TITLE	ARCHITECTURE FOR AN INDEXER		

CERTIFICATE UNDER 37 CFR 1.8:
I hereby certify that this correspondence is being transmitted through the USPTO EFS-Web system over
the Internet to Mohammad Ali of the U.S. Patent and Trademark Office on February 12, 2007.

/Janaki K. Davda/
Janaki K. Davda Reg. No. 40,684

REPLY UNDER 37 CFR 1.116 - EXPEDITED PROCEDURE
REQUEST FOR RECONSIDERATION

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Amendments to the Claims are reflected in the listing of claims which begins on page 2.

Remarks/Arguments begin on page 7.

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This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1.   (Currently Amended) A method for indexing data, comprising:

receiving a token;

determining whether a data field associated with the token is a fixed width <u>or a variable width, wherein the data field is fixed width for storing document content and variable width for storing document metadata</u>;

when the data field is a fixed width, designating the token as one for which fixed width sort is to be performed; and

when the data field is a variable length, designating the token as one for which a variable width sort is to be performed.

2.   (Original) The method of claim 1, wherein the token is variable width and further comprising:

transforming the variable width token into a fixed width token.

3.   (Original) The method of claim 1, further comprising:

performing a fixed width sort on one of dual code paths and a variable width sort on the other of dual code paths.

4.   (Original) The method of claim 1, further comprising:

generating a sort key that includes a token type, a token, a document identifier, a document section, and an offset in a document.

5.   (Original) The method of claim 1, further comprising:

receiving different sections of a document at different times.

6.   (Original) The method of claim 5, wherein the different sections include a context section and an anchor text section.

7.   (Original) The method of claim 1, further comprising:

generating sort keys for each token of multiple tokens; and

using the sort keys to create posting lists that simultaneously are ordered by token and by document identifier for each token.

8.   (Original) The method of claim 7, further comprising:

using the sort keys to bring together multiple sections of a document.

9.   (Original) The method of claim 1, further comprising:

sorting on certain bits of a sort key containing multiple bits.

10.   (Original) The method of claim 9, further comprising:

sorting on uppermost bits of the sort key.

11.   (Currently Amended) A computer system including logic for indexing data, comprising:

receiving a token;

determining whether a data field associated with the token is a fixed width or a variable width, wherein the data field is fixed width for storing document content and variable width for storing document metadata;

when the data field is a fixed width, designating the token as one for which fixed width sort is to be performed; and

when the data field is a variable length, designating the token as one for which a variable width sort is to be performed.

12.   (Original) The computer system of claim 11, wherein the token is variable width and wherein the logic further comprises:

transforming the variable width token into a fixed width token.

13.   (Original) The computer system of claim 11, wherein the logic further comprises:

performing a fixed width sort on one of dual code paths and a variable width sort on the other of dual code paths.

14.   (Original) The computer system of claim 11, wherein the logic further comprises:
generating a sort key that includes a token type, a token, a document identifier, a document section, and an offset in a document.

15.   (Original) The computer system of claim 11, wherein the logic further comprises:
receiving different sections of a document at different times.

16.   (Original) The computer system of claim 15, wherein the different sections include a context section and an anchor text section.

17.   (Original) The computer system of claim 11, wherein the logic further comprises:
generating sort keys for each token of multiple tokens; and
using the sort keys to create posting lists that simultaneously are ordered by token and by document identifier for each token.

18.   (Original) The computer system of claim 17, wherein the logic further comprises:
using the sort keys to bring together multiple sections of a document.

19.   (Original) The computer system of claim 11, wherein the logic further comprises:
sorting on certain bits of a sort key containing multiple bits.

20.   (Original) The computer system of claim 19, wherein the logic further comprises:
sorting on uppermost bits of the sort key.

21.   (Currently Amended) An article of manufacture comprising one of hardware logic and a computer readable medium including a program for indexing data, wherein the hardware logic or program causes operations to be performed, the operations comprising:
receiving a token;

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determining whether a data field associated with the token is a fixed width or a variable width, wherein the data field is fixed width for storing document content and variable width for storing document metadata;

when the data field is a fixed width, designating the token as one for which fixed width sort is to be performed; and

when the data field is a variable length, designating the token as one for which a variable width sort is to be performed.

22.   (Original) The article of manufacture of claim 21, wherein the token is variable width and wherein the operations further comprise:

transforming the variable width token into a fixed width token.

23.   (Original) The article of manufacture of claim 21, wherein the operations further comprise:

performing a fixed width sort on one of dual code paths and a variable width sort on the other of dual code paths.

24.   (Original) The article of manufacture of claim 21, wherein the operations further comprise:

generating a sort key that includes a token type, a token, a document identifier, a document section, and an offset in a document.

25.   (Original) The article of manufacture of claim 21, wherein the operations further comprise:

receiving different sections of a document at different times.

26.   (Original) The article of manufacture of claim 25, wherein the different sections include a context section and an anchor text section.

27.   (Original) The article of manufacture of claim 21, wherein the operations further comprise:

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generating sort keys for each token of multiple tokens; and

using the sort keys to create posting lists that simultaneously are ordered by token and by document identifier for each token.

28.   (Original) The article of manufacture of claim 27, wherein the operations further comprise:

using the sort keys to bring together multiple sections of a document.

29.   (Original) The article of manufacture of claim 21, wherein the operations further comprise:

sorting on certain bits of a sort key containing multiple bits.

30.   (Original) The article of manufacture of claim 29, wherein the operations further comprise:

· sorting on uppermost bits of the sort key.

REMARKS/ARGUMENTS

Claims 1-30 are pending in the application. Claims 1, 11, and 21 have been amended merely to clarify certain terms. Reconsideration is respectfully requested. Applicant submits that the pending claims 1-30 are patentable over the art of record and allowance is respectfully requested of claims 1-30.

Claims 1-30 are rejected under 35 U.S.C. 102(a) as being anticipated by Charles G. Call (U.S. Pub. No. 2002/0165707). Applicants respectfully traverse, but, in order to expedite prosecution, Applicants are amending the claims to clarify certain terms.

Anticipation requires that the identical invention must be shown in a single reference in as complete detail as is contained in the claims. Richardson v. Suzuki Motor Co., 9 USPQ2d 1913, 1920 (Fed. Cir. 1989). Applicants respectfully submit that the identical invention claimed is not shown in the Call patent application.

Amended claims 1, 11, and 21 describe receiving a token and determining whether a data field associated with the token is a fixed width or a variable width, wherein the data field is fixed width for storing document content and variable width for storing document metadata (e.g., Specification, page 8, paragraph 23; pages 9-10, paragraph 30). When the data field is a fixed width, the token is designated as one for which fixed width sort is to be performed. When the data field is a variable length, the token is designated as one for which a variable width sort is to be performed.

The Examiner refers to paragraph 103 of the Call patent application as teaching determining whether a data field associated with the token is a fixed width. Paragraph 103 describes that as RAM memory costs continue to be reduced, a larger 32 bit integer size could be substituted for the 16 bit integer size. Thus, the Call patent application describes using either the 16 bit integer size or the 32 bit integer size. However, regardless of the size used, there is no teaching of determining whether a data field associated with the token is a fixed width.

Additionally, to expedite prosecution, Applicants are amending claims 1, 11, and 21 to indicate determining whether a data field associated with the token is a fixed width or a variable width, wherein the data field is fixed width for storing document content and variable width for storing document metadata. Applicants submit that the Call patent application does not describe

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that the data field is fixed width for storing document content and variable width for storing document metadata.

The Examiner refers to paragraphs 10, 26, 69, and 103 of the Call patent application as teaching when the data field is a fixed width, designating the token as one for which fixed width sort is to be performed. Applicants respectfully traverse. Paragraph 10 of the Call patent application indicates that it is a further object of the invention to *store variable length character data in an addressable array of integer values* organized to permit more efficient execution of processing functions of the type typically performed by data processors. Paragraph 26 of the Call patent application describes that the apparatus and methods *represent natural language text in more compact form as an array of fixed length binary integers* that may be more rapidly searched, sorted and processed. Paragraph 69 describes that text represented by a sequence of one or more integers may be rapidly sorted. Paragraph 103 describes that as RAM memory costs continue to be reduced, a larger 32 bit integer size could be substituted for the 16 bit integer size. However, Applicants submit that the Call patent application represents text as an array of fixed length binary integers and performs a single sort and that there is no need in the Call patent application for the claimed fixed width sort and variable width sort.

The Examiner refers to paragraphs 10, 103, and 123 as teaching when the data field is a variable length, designating the token as one for which a variable width sort is to be performed. Applicants respectfully traverse. Paragraphs 10 and 103 were discussed above. Paragraph 123 describes selecting a sequence of integers in the integer array, and these integers are converted into corresponding natural language text. Applicants respectfully submit that *conversion* of integers to text does not anticipate, when the data field is a variable length, *designating the token as one for which a variable width sort is to be performed.*

Thus, the Call patent application does not anticipate claims 1, 11, and 21.

Dependent claims 2-10, 12-20, and 22-30 incorporate the language of independent claims 1, 11, and 21 and add additional novel elements. Therefore, dependent claims 2-10, 12-20, and 22-30 are not anticipated by the Call patent application for at least the same reasons as were discussed with respect to claims 1, 11, and 21.

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Conclusion

For all the above reasons, Applicant submits that the pending claims 1-30 are patentable over the art of record. Applicants have not added any claims. Nonetheless, should any additional fees be required, please charge Deposit Account No. 09-0460.

The attorney of record invites the Examiner to contact her at (310) 553-7973 if the Examiner believes such contact would advance the prosecution of the case.

Dated: February 12, 2007   By:___/Janaki K. Davda/_____

                                            Janaki K. Davda
                                            Registration No. 40,684

Please direct all correspondences to:

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